

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/050814

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L23/528 H01L23/522

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	PATENT ABSTRACTS OF JAPAN vol. 008, no. 135 (E-252), 22 June 1984 (1984-06-22) -& JP 59 046044 A (NIPPON DENKI KK), 15 March 1984 (1984-03-15) abstract ----- Y PATENT ABSTRACTS OF JAPAN vol. 1995, no. 03, 28 April 1995 (1995-04-28) -& JP 06 334157 A (SONY CORP), 2 December 1994 (1994-12-02) abstract ----- -/-	1-9
		1-9

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *Y* document of particular relevance; the claimed Invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

16 August 2004

Date of mailing of the international search report

23/08/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	PATENT ABSTRACTS OF JAPAN vol. 017, no. 035 (E-1310), 22 January 1993 (1993-01-22) -& JP 04 255246 A (TOSHIBA CORP), 10 September 1992 (1992-09-10) abstract -----	1
A	EP 1 231 638 A (TOSHIBA ELECTRONICS EUROP GMBH) 14 August 2002 (2002-08-14) figure 1 -----	1, 4
A	US 6 346 721 B1 (SCHULTZ RICHARD T) 12 February 2002 (2002-02-12) column 3, line 54 - column 4, line 51; figure 3 -----	1, 4

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Information on patent family members

International Application No

PCT/IB2004/050814

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 59046044	A	15-03-1984	NONE		
JP 06334157	A	02-12-1994	NONE		
JP 04255246	A	10-09-1992	JP	4255246 T1	10-09-1992
EP 1231638	A	14-08-2002	EP	1231638 A1	14-08-2002
US 6346721	B1	12-02-2002		NONE	